

Work Order ID 127571

December-17-14 1:38:32 PM

127571

Page 1

Item ID: D4025-5 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Fuel Quantity Sender
Start Date: 12/17/14 Start Qty: 3.00 ***3*** Cust Item ID:
Required Date: 12/17/14 Req'd Qty: 3.00 ***3*** Customer:
Reference:

Approvals: Process Plan: MLS Date: 14-12-22 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4025	B

100		0.00
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100

Purchasing

Purchasing

Memo

Issue: ~~2901~~ P027074
Purchase part as per Dwg D4025
Part #: 224-260
Possible Supplier: Forsters Intruments
Material release note required

0.00

MLS 15-01-15
(3)

110

Receive & Inspect for Damage & Mat'l Certs 0.00

110

Packaging

Packaging

Memo

***HOLD IN VERTICAL POSITION AND MEASURE RESISTANCE
READING FOR LOWER LIMIT. ROTATE 180 DEGREES AND MEASURE
RESISTANCE FOR UPPER LIMIT AS PER DWG***

0.00

REMOVE TRANSPORT PIN

3x SP 15-01-28

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC6- Inspect dimensions to drawing	0.00							DAS 38 9-89
120						(3)			
QC	Memo	0.00							
Quality Control	***REMOVE TRANSPORT PIN***								JAN 28 2015
130	Identify as per dwg & Stock Location: ST-233B	0.00							
130						3			
Packaging	Memo	0.00							DAS 66 9-89
Packaging									JAN 31 2015
140	QC21- Final Inspection - Work Order Release	0.00							
140						MLJ	15-02-02		
QC	Memo	0.00							
Quality Control									

Handwritten signature/initials

DQA: _____ Date: _____



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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID: 127571

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Parent Item: D4025-5

D4025-5

Parent Item Name: Fuel Quantity Sender

Start Date: 12/17/14**Required Date:** 12/17/14**Start Qty: 3.00**

Required Qty: 3.00

Comments: IPP REV:A 11.11.22 NEW ISSUE DD VERF;EC

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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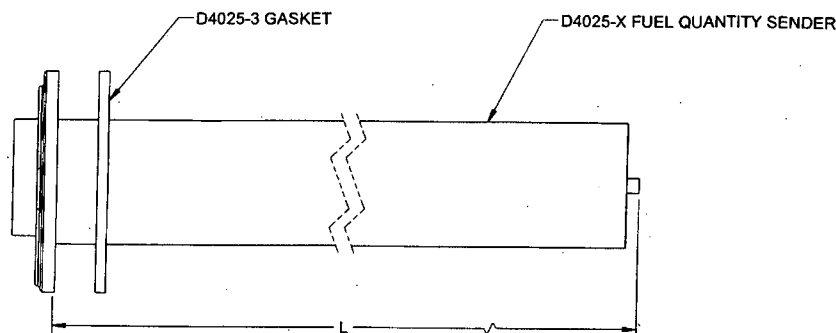
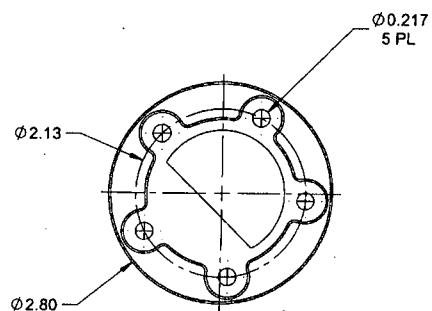
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DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4025-1	VDO-M47-JCA
D4025-3	N/A
D4025-5	N/A

SPECIFICATION CONTROL DRAWING



DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	LENGTH "L"	LOWER RESISTANCE LIMIT	UPPER RESISTANCE LIMIT	MATERIAL
D4025-1	FUEL QUANTITY SENDER	VDO SIEMENS	224-011-000-650	FORSTER INSTRUMENTS	224-265	25.59	82.2 ± 2.5 OHMS	2.5 ± 1.5 OHMS	N/A
D4025-3	GASKET	VDO SIEMENS	N/A	FORSTER INSTRUMENTS	226-053	N/A	N/A	N/A	RUBBER
D4025-5	FUEL QUANTITY SENDER	VDO SIEMENS	224-011-000-600	FORSTER INSTRUMENTS	224-260	23.62	85.3 ± 2.5 OHMS	2.5 ± 1.5 OHMS	N/A

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4025-X" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: D4025-1 - 0.39 lbs
D4025-3 - 0.01 lbs
D4025-5 - 0.37 lbs
- 8) RECEIVING INSPECTION REQUIREMENTS:
 - a) REMOVE TRANSPORT PIN AND INSPECT FOR VISUAL DAMAGE
 - b) OVERALL CYLINDER LENGTH - SEE TABLE
 - c) HOLD IN VERTICAL POSITION AND MEASURE RESISTANCE READING FOR LOWER LIMIT
 - d) ROTATE 180° AND MEASURE RESISTANCE FOR UPPER LIMIT

RELEASED
2011-11-16

B	ADDED -3, ADDED SUPPLIER PART NO.	HS	11.10.04
A	NEW ISSUE	HS	10.02.05
REV.	DESCRIPTION	BY	DATE
DESIGN	HS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	HS	DRAWING NO. D4025	REV. B
CHECKED	HS	SHEET 1 OF 1	
MFG. APPR.	HS	TITLE FUEL SENDER	SCALE NTS
APPROVED	HS	DATE 11.10.04	
DE APPR.	HS	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

127571 MLC
14-12-22



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO27074**

Purchase Order Date 1/15/2015

PO Print Date 1/15/2015

Page Number 1 of 2

Order From :

VC-FOR002

FORSTER INSTRUMENTS
7141 EDWARDS BLVD
MISSISSAUGA, ON L5S 1Z2
CANADA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED

Contact Name

Vendor Phone 905 795 0555

Ship To Contact

Ship To Phone

Ship Via: FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
224-260		Fuel Sender 224-260-SP	1/29/2015 Yes 1/29/2015		3.00 Each	\$90.50	\$271.50

AS PFR DWG: D4025 REV. B
B127571

NOTE: Part need to be tested for OHMS and please include report

2015-01-28

Line Total: \$271.50

441-45	PROCUREMENT QUALITY CLAUSES	1/29/2015	No 1/29/2015		1.00	\$0.00	\$0.00
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Procurement Quality Clauses
A005 right of entry
A016 personnel qualification
A026 certification of material conformance
A040 notification of quality escape
A041 quality management system
A043 retention of quality documents

Note:

1/15/2015



RSTER INSTRUMENTS INC.

EDWARDS BLVD., MISSISSAUGA, ONTARIO L5S 1Z2
D - U - N - S 25 - 530 - 6649
PHONE (905) 795-0555 • FAX (905) 795-0570
TOLL FREE 1-800-661-2994 • TOLL FREE FAX 1-800-632-9943
Toll Free within Canada only

Automotive and Industrial Instruments, Controls and Equipment

TERMS AND CONDITIONS

net 30 days from date of invoice unless otherwise stated.
pay from invoice, statements upon request only.
all claims for shortage must be made within ten days after receipt of goods.
all claims for damage must be made with the carrier.
all goods F.O.B. our Mississauga warehouse.
orders subject to a minimum invoice value of \$50.00.
goods cannot be returned without our Return Authorization Number.
returned goods must be freight prepaid.
warranty is expressed or implied is that of the manufacturer as stated in their literature.
title of goods does not pass until goods are paid for in full.
E & O E

1-800-661-2994

Page: 1

AEROSPACE LTD.
ABERDEEN STREET

HAWKESBURY, ON K6A 1K7

S
H
I
P
DART AEROSPACE LTD.
1270 ABERDEEN STREET
T
O
HAWKESBURY, ON K6A 1K7

CUSTOMER ORDER NO.

GST NUMBER

PROV. TAX NO.

S/A OVER

PACKED BY

0027074

R101272607

SLOA

DATE SHIPPED

OUR SALES ORDER NO.

SHIPMENT NO.

SHIP VIA

S52291

01

FED EX

QUANTITY

SHIP

B/O

PART NUMBER

DESCRIPTION

CODE

FED EX ACCT# 15179324-0

FUEL SENDER # 224-260-SP &
224-265-SP NEED
TO BE CERTIFIED FOR ACCURACY
PER

~~CUSTOMER DRAWING~~

PARTS NEED TO BE TESTED FOR
OHMS

FUEL SENDERS AS PER CUSTOMER
SPECS.

SHIP DATE: JAN 27/15

DUE DATE: JAN 29/15

FEDEX OVERNIGHT COLLECT

ENCLOSED C OF C

0 224-260-SP

FUEL SENDER, 23.6", 54 mm DIA.
Pick 3 Sets; P:0 C:3

PER

LINE 1

Sp 15-01-28

DR



FORSTER INSTRUMENTS INC.



JANUARY 20, 2015

DART AEROSPACE LTD.
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

CERTIFICATE OF COMPLIANCE

We hereby certify that this shipping lot of 4 VDO tube type senders 224-260-SP

On your purchase order P027074, our packing slip S52291 tested within the following ohms range.

EMPTY

85.3 +/- 2.5 ohms

FULL

2.5 +/- 1.5 ohms

Yours truly

JEFF HEAL

JH/rmj



FORSTER INSTRUMENTS INC.



JANUARY 20, 2015

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1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

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